

RAW SEQUENCE LISTING

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Application Serial Number: 10/500,207A

Source: PCT

Date Processed by STIC: 1-26-05

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PCT

RAW SEQUENCE LISTING

DATE: 01/26/2005

PATENT APPLICATION: US/10/500,207A

TIME: 12:48:15

Input Set : A:\seq list.txt

Output Set: N:\CRF4\01262005\J500207A.raw

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3 <110> APPLICANT: KYOWA HAKKO KOGYO CO., LTD
5 <120> TITLE OF INVENTION: AGENT FOR TREATING ARTHRITIS
7 <130> FILE REFERENCE: 1442
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/500,207A
C--> 9 <141> CURRENT FILING DATE: 2004-06-28
9 <150> PRIOR APPLICATION NUMBER: JP2001-400677
10 <151> PRIOR FILING DATE: 2001-12-28
12 <160> NUMBER OF SEQ ID NOS: 51
14 <170> SOFTWARE: PatentIn version 3.1
16 <210> SEQ ID NO: 1
17 <211> LENGTH: 420
18 <212> TYPE: DNA
20 <213> ORGANISM: Mus musculus
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24 <221> NAME/KEY: source
25 <222> LOCATION: (1)..(420)
26 <223> OTHER INFORMATION: /organism="Mus musculus"
28 <220> FEATURE:
29 <221> NAME/KEY: CDS
30 <222> LOCATION: (1)..(420)
33 <220> FEATURE:
34 <221> NAME/KEY: sig_peptide
35 <222> LOCATION: (1)..(57)
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39 Met Glu Trp Ile Trp Ile Phe Leu Phe Phe Leu Ser Gly Thr Thr Gly
40 1 5 10 15
42 gtc tac tcc cag gtt cag ctg cag cag tct gga gct gag gtg gcg agg      96
43 Val Tyr Ser Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Ala Arg
44 20 25 30
46 ccc ggg gct tca gtg aaa ctg tcc tgc aag gct tct ggc tac acc ttc      144
47 Pro Gly Ala Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe
48 35 40 45
50 act gac tac tat cta aac tgg gtg aag cag agg tct gga cag ggc ctt      192
51 Thr Asp Tyr Tyr Leu Asn Trp Val Lys Gln Arg Ser Gly Gln Gly Leu
52 50 55 60
54 gag tgg att gga gag att gat cct gga agt gat ata tat tat aat      240
55 Glu Trp Ile Gly Glu Ile Asp Pro Gly Ser Asp Ser Ile Tyr Tyr Asn
56 65 70 75 80
58 gaa aac ttg gag ggc agg gcc aca ctg act gca gac aaa tcc tcc agc      288
59 Glu Asn Leu Glu Gly Arg Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser
60 85 90 95
62 aca gcc tac atg cag ctc aac agc ctg aca tct gag gac tct gca gtc      336

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63 Thr Ala Tyr Met Gln Leu Asn Ser Leu Thr Ser Glu Asp Ser Ala Val
64          100          105          110
66 tat ttc tgt gca aga tat ggg tat tct aga tac gac gta agg ttt gtc      384
67 Tyr Phe Cys Ala Arg Tyr Gly Tyr Ser Arg Tyr Asp Val Arg Phe Val
68          115          120          125
70 tac tgg ggc caa ggg act ctg gtc act gtc tct aca      420
71 Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Thr
72          130          135          140
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76 <211> LENGTH: 140
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78 <213> ORGANISM: Mus musculus
80 <220> FEATURE:
81 <221> NAME/KEY: SIGNAL
82 <222> LOCATION: (1)..(19)
84 <400> SEQUENCE: 2
85 Met Glu Trp Ile Trp Ile Phe Leu Phe Phe Leu Ser Gly Thr Thr Gly
86 1          5          10          15
89 Val Tyr Ser Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Ala Arg
90          20          25          30
93 Pro Gly Ala Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe
94          35          40          45
98 Thr Asp Tyr Tyr Leu Asn Trp Val Lys Gln Arg Ser Gly Gln Gly Leu
99          50          55          60
102 Glu Trp Ile Gly Glu Ile Asp Pro Gly Ser Asp Ser Ile Tyr Tyr Asn
103 65          70          75          80
106 Glu Asn Leu Glu Gly Arg Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser
107          85          90          95
110 Thr Ala Tyr Met Gln Leu Asn Ser Leu Thr Ser Glu Asp Ser Ala Val
111          100          105          110
114 Tyr Phe Cys Ala Arg Tyr Gly Tyr Ser Arg Tyr Asp Val Arg Phe Val
115          115          120          125
118 Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Thr
119          130          135          140
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123 <211> LENGTH: 393
124 <212> TYPE: DNA
126 <213> ORGANISM: Mus musculus
128 <220> FEATURE:
129 <221> NAME/KEY: source
130 <222> LOCATION: (1)..(393)
131 <223> OTHER INFORMATION: /organism="Mus musculus"
133 <220> FEATURE:
134 <221> NAME/KEY: CDS
135 <222> LOCATION: (1)..(393)
137 <220> FEATURE:
138 <221> NAME/KEY: sig_peptide
139 <222> LOCATION: (1)..(57)
141 <400> SEQUENCE: 3

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142 atg aag ttg cct gtt agg ctg ttg gtg ctg atg ttc tgg att cct gct      48
143 Met Lys Leu Pro Val Arg Leu Leu Val Leu Met Phe Trp Ile Pro Ala
144   1           5           10           15
146 tcc agg agt gat gtt ttg atg acc caa act cca ctc tcc ctg cct gtc      96
147 Ser Arg Ser Asp Val Leu Met Thr Gln Thr Pro Leu Ser Leu Pro Val
148           20           25           30
150 agt ctt gga gat caa gcc tcc atc tct tgc aga tct agt cag agt ctt      144
151 Ser Leu Gly Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu
152           35           40           45
154 gta cat agt aat gga aga acc tat tta gaa tgg tac ctg cag aaa cct      192
155 Val His Ser Asn Gly Arg Thr Tyr Leu Glu Trp Tyr Leu Gln Lys Pro
156           50           55           60
158 ggc cag tca cca aag gtc ctg atc tac aaa gtt tcc aac cga att tct      240
159 Gly Gln Ser Pro Lys Val Leu Ile Tyr Lys Val Ser Asn Arg Ile Ser
160 65           70           75           80
162 ggg gtc cca gac agg ttc agt ggc agt gga tca ggg aca gat ttc aca      288
163 Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
164           85           90           95
166 ctc aaa atc agc aga gtg gag gct gag gat ctg gga gtt tat ttc tgc      336
167 Leu Lys Ile Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Phe Cys
168           100          105          110
170 ttt cag ggt tca cat gtt ccg tac acg ttc gga ggg ggg acc aag ctg      384
171 Phe Gln Gly Ser His Val Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu
172           115          120          125
174 gaa ata aaa      393
175 Glu Ile Lys
176           130
179 <210> SEQ ID NO: 4
180 <211> LENGTH: 131
181 <212> TYPE: PRT
182 <213> ORGANISM: Mus musculus
184 <220> FEATURE:
185 <221> NAME/KEY: SIGNAL
186 <222> LOCATION: (1)..(19)
188 <400> SEQUENCE: 4
189 Met Lys Leu Pro Val Arg Leu Leu Val Leu Met Phe Trp Ile Pro Ala
190   1           5           10           15
192 Ser Arg Ser Asp Val Leu Met Thr Gln Thr Pro Leu Ser Leu Pro Val
193           20           25           30
195 Ser Leu Gly Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu
196           35           40           45
198 Val His Ser Asn Gly Arg Thr Tyr Leu Glu Trp Tyr Leu Gln Lys Pro
199           50           55           60
201 Gly Gln Ser Pro Lys Val Leu Ile Tyr Lys Val Ser Asn Arg Ile Ser
202 65           70           75           80
204 Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
205           85           90           95
207 Leu Lys Ile Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Phe Cys
208           100          105          110

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210 Phe Gln Gly Ser His Val Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu
211      115      120      125
213 Glu Ile Lys
214      130
217 <210> SEQ ID NO: 5
218 <211> LENGTH: 121
219 <212> TYPE: PRT
220 <213> ORGANISM: Mus musculus
222 <400> SEQUENCE: 5
223 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Ala Arg Pro Gly Ala
224 1      5      10      15
227 Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
228      20      25      30
231 Tyr Leu Asn Trp Val Lys Gln Arg Ser Gly Gln Gly Leu Glu Trp Ile
232      35      40      45
235 Gly Glu Ile Asp Pro Gly Ser Asp Ser Ile Tyr Tyr Asn Glu Asn Leu
236      50      55      60
239 Glu Gly Arg Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser Thr Ala Tyr
240 65      70      75      80
243 Met Gln Leu Asn Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Phe Cys
244      85      90      95
247 Ala Arg Tyr Gly Tyr Ser Arg Tyr Asp Val Arg Phe Val Tyr Trp Gly
248      100     105     110
251 Gln Gly Thr Leu Val Thr Val Ser Thr
252      115     120
255 <210> SEQ ID NO: 6
256 <211> LENGTH: 112
257 <212> TYPE: PRT
258 <213> ORGANISM: Mus musculus
260 <400> SEQUENCE: 6
261 Asp Val Leu Met Thr Gln Thr Pro Leu Ser Leu Pro Val Ser Leu Gly
262 1      5      10      15
265 Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Val His Ser
266      20      25      30
269 Asn Gly Arg Thr Tyr Leu Glu Trp Tyr Leu Gln Lys Pro Gly Gln Ser
270      35      40      45
273 Pro Lys Val Leu Ile Tyr Lys Val Ser Asn Arg Ile Ser Gly Val Pro
274      50      55      60
277 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
278 65      70      75      80
281 Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Phe Cys Phe Gln Gly
282      85      90      95
285 Ser His Val Pro Tyr Thr Phe Gly Gly Thr Lys Leu Glu Ile Lys
286      100     105     110
289 <210> SEQ ID NO: 7
290 <211> LENGTH: 5
291 <212> TYPE: PRT
292 <213> ORGANISM: Mus musculus
294 <400> SEQUENCE: 7

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300 <211> LENGTH: 17
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302 <213> ORGANISM: Mus musculus
304 <400> SEQUENCE: 8
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306   1           5           10           15
309 Gly
312 <210> SEQ ID NO: 9
313 <211> LENGTH: 12
314 <212> TYPE: PRT
315 <213> ORGANISM: Mus musculus
317 <400> SEQUENCE: 9
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319   1           5           10
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323 <211> LENGTH: 16
324 <212> TYPE: PRT
325 <213> ORGANISM: Mus musculus
327 <400> SEQUENCE: 10
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329   1           5           10           15
332 <210> SEQ ID NO: 11
333 <211> LENGTH: 7
334 <212> TYPE: PRT
335 <213> ORGANISM: Mus musculus
337 <400> SEQUENCE: 11
338 Lys Val Ser Asn Arg Ile Ser
339   1           5
342 <210> SEQ ID NO: 12
343 <211> LENGTH: 9
344 <212> TYPE: PRT
345 <213> ORGANISM: Mus musculus
347 <400> SEQUENCE: 12
348 Phe Gln Gly Ser His Val Pro Tyr Thr
349   1           5
352 <210> SEQ ID NO: 13
353 <211> LENGTH: 22
354 <212> TYPE: DNA
355 <213> ORGANISM: Artificial Sequence
357 <220> FEATURE:
358 <223> OTHER INFORMATION: a primer for amplification of KM1334 VH
360 <400> SEQUENCE: 13
361 ctgaattcgc ggccgctagt cc
364 <210> SEQ ID NO: 14
365 <211> LENGTH: 39
366 <212> TYPE: DNA

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VERIFICATION SUMMARY

DATE: 01/26/2005

PATENT APPLICATION: US/10/500,207A

TIME: 12:48:16

Input Set : A:\seq list.txt

Output Set: N:\CRF4\01262005\J500207A.raw

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L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date